ZBVS ball valve series for fan coils
ZMRA modulating rotating actuator

D-06-03
(R) 2008-10

The ZBVS ball valve coupled with the ZMRA rotating actuator has been designed for fan-coil control of heating and cooling systems. The actuator is using high durable bi-directional motor and can be used for modulating control of the ZBVS ball valve delivering high closed off pressure rating.

- Low cost
- No leakage
- Valve & actuator can be installed separately
- High torque actuator
- High working presure of 25 bar
- Close-off rating approximately 6 bar
- Bi-directional AC motor
- Equal Percentage Characteristic
- Modulating function
- With manual override
- High control precision and sensitivity
- Low noise level
- Fireproof ABS engineering plastic, toUL94V-0 standard
- Detachable design, easy to install and maintain

Models

2-way	3-way	Connection	Kv	+Pc
ZBVS215/4EQ	ZBVS315	DN15	4	600kPa
ZBVS220/6.3EQ	ZBVS320	DN20	6.3	600kPa
ZBVS225/10EQ	ZBVS325	DN25	10	600kPa

Z3PRA-23001 Modulating 2...10 Vdc actuator, 24 VAC operation

Technical data

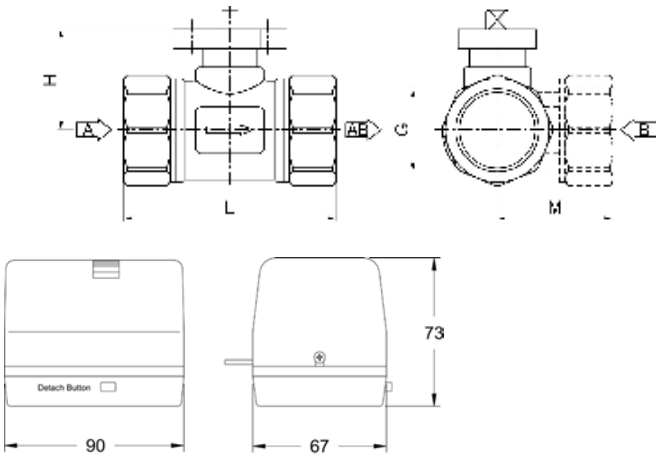
Valve

Valve type.....2/3 way ball valve
Pressure class.....PN 25 (360 psi)
Fluid temperature.....2°C to 94°C
Working media..... Chilled/hot water; 50% glycol
Leakage.....none
Valve body.....forged brass
Ball.....stainless steel
Ball Sealing..... PTFE
Stem.....stainless steel
Seal.....NBR

Actuator

Supply voltage.....24VAC +/- 10%
Power consumption.....5 VA
Control signal.....0-10Vdc
Ambient operating temperature .....0 to 40°C
Torque.....>= 3 Nm
Operation time.....18 to 36 secs
Weight.....0.13 kg
Chassis & cover.....polycarbonate/ABS engrg plastic
Gear.....POM (polyoxymethylene) + brass
Reducer Plate.....stainless steel plate

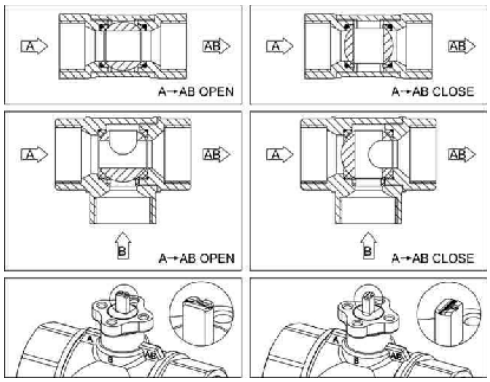
Dimensions

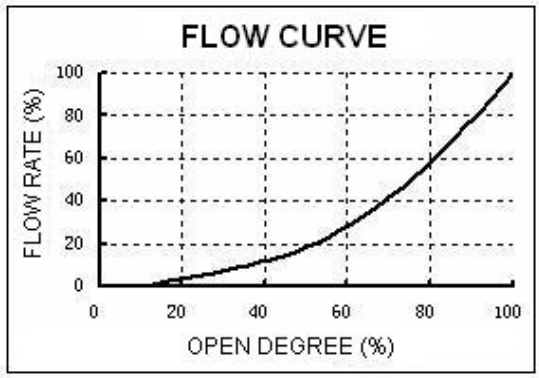


DIMENSIONS (MM)

DN	DIMENSIONS			THREAD	MAX. PIPE SIZE
mm	L	H	M (3-WAY)	G	
15	68	32	46	1/2"	13
20	68	32	46	3/4"	13
25	82	37	57	1"	17

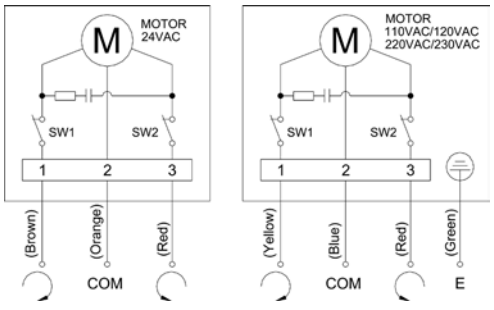
Flow Direction

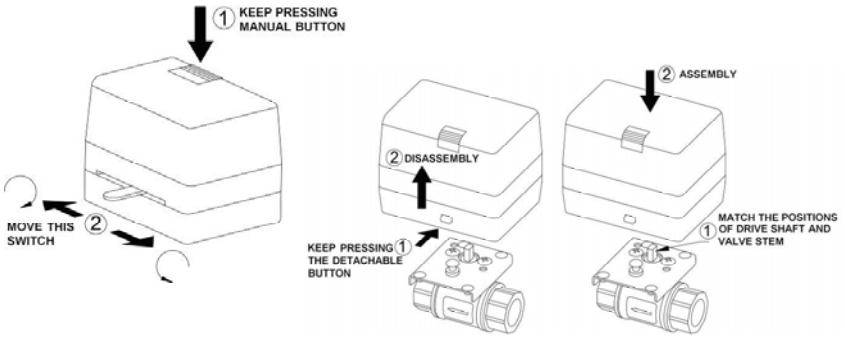




ZBVS series 2-way valve is a flow-cutting device. Because of that, it must be installed on the return pipe to reduce thermal stress of the valve ball sealing. ZBVS series 3-way valve can be used as mixing valve or diverted valve. **Please notice that the "T" mark on valve stem indicates the ports on the valve ball.**

Wiring, Manual Switch, Assembly & Disassembly





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